

#5 RB
PCT09
15-02

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/806,247

DATE: 10/30/2001

TIME: 13:14:28

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5 <110> APPLICANT: Bar-Or M.D., David
 7 Lau Ph.D., Edward
 9 Winkler M.D., James V.
 13 <120> TITLE OF INVENTION: Tests for the Rapid Evaluation of Ischemic States and
 15 Kits
 19 <130> FILE REFERENCE: ISC007
 C--> 23 <140> CURRENT APPLICATION NUMBER: US/09/806,247
 C--> 25 <141> CURRENT FILING DATE: 2001-07-16
 29 <150> PRIOR APPLICATION NUMBER: 60/115,392
 31 <151> PRIOR FILING DATE: 1999-01-11
 35 <150> PRIOR APPLICATION NUMBER: 60/102,738
 37 <151> PRIOR FILING DATE: 1998-10-02
 41 <150> PRIOR APPLICATION NUMBER: 09/165,926
 43 <151> PRIOR FILING DATE: 1998-10-02
 47 <150> PRIOR APPLICATION NUMBER: 09/165,581
 49 <151> PRIOR FILING DATE: 1998-10-02
 53 <160> NUMBER OF SEQ ID NOS: 2
 57 <170> SOFTWARE: PatentIn Ver. 2.0
 61 <210> SEQ ID NO: 1
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 65 <212> TYPE: PRT
 67 <213> ORGANISM: Homo sapiens
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 81 20 25 30
 85 Gln Cys Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu
 87 35 40 45
 91 Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys
 93 50 55 60
 97 Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu
 99 65 70 75 80
 103 Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro
 105 85 90 95
 109 Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu
 111 100 105 110
 115 Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His
 117 115 120 125
 121 Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg
 123 130 135 140
 127 Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg
 129 145 150 155 160
 133 Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala
 135 165 170 175
 139 Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser
 141 180 185 190

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153      210      215      220
157 Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys
159 225      230      235      240
163 Val His Thr Glu Cys Cys His Gly Asp Leu Leu Glu Cys Ala Asp Asp
165      245      250      255
169 Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser
171      260      265      270
175 Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser His
177      275      280      285
181 Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser
183      290      295      300
187 Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val Cys Lys Asn Tyr Ala
189 305      310      315      320
193 Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg
195      325      330      335
199 Arg His Pro Asp Tyr Ser Val Val Leu Leu Leu Arg Leu Ala Lys Thr
201      340      345      350
205 Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu
207      355      360      365
211 Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro
213      370      375      380
217 Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu Gln Leu Gly Glu
219 385      390      395      400
223 Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro
225      405      410      415
229 Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys
231      420      425      430
235 Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys
237      435      440      445
241 Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His
243      450      455      460
247 Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser
249 465      470      475      480
253 Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Val Asp Glu Thr
255      485      490      495
259 Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp
261      500      505      510
265 Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala
267      515      520      525
271 Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu
273      530      535      540
277 Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys
279 545      550      555      560
283 Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu Gly Lys Lys Leu Val
285      565      570      575
289 Ala Ala Ser Gln Ala Ala Leu Gly Leu

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291          580          585
297 <210> SEQ ID NO: 2
299 <211> LENGTH: 585
301 <212> TYPE: PRT
303 <213> ORGANISM: Homo sapiens
307 <220> FEATURE:
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311 <222> LOCATION: (1)..(585)
313 <223> OTHER INFORMATION: ACETYLTATION
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327          20          25          30
331 Gln Cys Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu
333          35          40          45
337 Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys
339          50          55          60
343 Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu
345  65          70          75          80
349 Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro
351          85          90          95
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357          100         105         110
361 Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His
363          115         120         125
367 Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg
369          130         135         140
373 Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg
375 145         150         155         160
379 Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala
381          165         170         175
385 Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser
387          180         185         190
391 Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu
393          195         200         205
397 Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Arg Phe Pro
399          210         215         220
403 Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys
405 225         230         235         240
409 Val His Thr Glu Cys Cys His Gly Asp Leu Leu Glu Cys Ala Asp Asp
411          245         250         255
415 Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser
417          260         265         270
421 Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser His
423          275         280         285
427 Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser
429          290         295         300
433 Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val Cys Lys Asn Tyr Ala

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435 305          310          315          320
439 Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg
441          325          330          335
445 Arg His Pro Asp Tyr Ser Val Val Leu Leu Leu Arg Leu Ala Lys Thr
447          340          345          350
451 Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu
453          355          360          365
457 Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro
459          370          375          380
463 Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu Gln Leu Gly Glu
465 385          390          395          400
469 Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro
471          405          410          415
475 Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys
477          420          425          430
481 Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys
483          435          440          445
487 Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His
489          450          455          460
493 Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser
495 465          470          475          480
499 Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Val Asp Glu Thr
501          485          490          495
505 Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp
507          500          505          510
511 Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala
513          515          520          525
517 Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu
519          530          535          540
523 Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys
525 545          550          555          560
529 Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val
531          565          570          575
535 Ala Ala Ser Gln Ala Ala Leu Gly Leu
537          580          585

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VERIFICATION SUMMARY

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L:23 M:270 C: Current Application Number differs, Replaced Current Application Number

L:25 M:271 C: Current Filing Date differs, Replaced Current Filing Date